Name of the work: Providing Drinking Water through Drilling New Bore wells and Water Pipe Line in Ward No.08, Kodigehalli.

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Contractor/Agency	: M/s KRIDL.
Name of the Client	: BBMP.
Estimated Cost	: 99.00 Lakhs.
Status of Bill	: 1st and Final Bill.
In the Presence of	: (a) Mr. Sundresh G K. Assistant Engineer, BBMP, Bangalore.
	: (b) Mr. Chandrashekhar B. V. Assistant Executive Engineer, BBMP, Bangalore
	: (c) Mr. Somesh C D. Site Engineer. M/s Tejus Consultants

AEE
Sundaresh AE for n/a
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Sl. No.	Description of Item of Work	Comments/observation
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.47, I. 9.4) PRED.SR 2012-13	Work done up to the billed quantity and quality is satisfactory
2 a)	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,)Page no. 46 / I. 9.1 PRED SR 2012-13- (0-50m)	Work done up to the billed quantity and quality is satisfactory

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b	(50-100m)	Work done up to the billed quantity and quality is satisfactory
c	(100-150m)	Work done up to the billed quantity and quality is satisfactory
d	(150-200m)	Work done up to the billed quantity and quality is satisfactory
e	(200-250m)	Work done up to the billed quantity and quality is satisfactory
f	(250-300m)	Work done up to the billed quantity and quality is satisfactory
g	(300-350m)	Work done up to the billed quantity and quality is satisfactory
h	(Above 350m)	Work done up to the billed quantity and quality is satisfactory
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) SE PRED III NO 84	Work done up to the billed quantity and quality is satisfactory
4	Providing 250mm dia PVC Pipe BWSSB SR 16-17 PNO 57 SL NO 11	Work done up to the billed quantity and quality is satisfactory
5	Providing 175mm dia ms casing cap page no III it no 85 pred 12-13 sr	Work done up to the billed quantity and quality is satisfactory
6	Providing MS Casing pipe collars page no III it no 86 pred 12-13 sr	Work done up to the billed quantity and quality is satisfactory

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7	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings . PAGE NO XXXXII	Work done up to the billed quantity and quality is satisfactory
8	KSRB13-1.1 : Providing and fixing to wall, ceiling and floor galvanised / mild steel tube (medium grade weight 1.27 kg/mtr) B class 50 mm dia nominal bore with fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.8	Work done up to the billed quantity and quality is satisfactory
9	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extrued PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 : 1990 AND CONFORMING TO gtp OFGROUP A P. No. 12/ I No. (2.10.4) 3cx 6.0 Sqm KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory
10	Labour charges for erection of new/ repaired submersible pumpset along with gi pipes inculding transportion each length pno 558 ino 3 bwssb sr 17-18	Work done up to the billed quantity and quality is satisfactory
11	Supplying and flush polished wood board with out front frount plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary on fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 44No.6.6.6 KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory
12	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.P No.55/ I No.7.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory
13	Labour charges for laying of 1.1 K.V class UG cable, P No. 61 / I No. 7.8.1 In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory
14	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., completeP No. 62/ I. No.7.9.4 KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory

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15	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 62/ I No.7.12.1 KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory
16	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No.62/ I No. 7.13.2 KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory
17	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (P No.55, I No. 7.1) KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory
18	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... P No44/I No 6.7.4 KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory
19	Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete.... P No62 I No 7.14.2 KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory
20	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications pno 47 IT 6.16.5 KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory
21	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 P.No. 49, I. No.6.40.2 KPWD Electrical SR 2014-15	Work done up to the billed quantity and quality is satisfactory
22	KSRB13-7.1 : Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM with all leads complete as per specifications. Specification No.KBS 13.2.10 / 13.13 . Item No 13.55 PWD SR 2018-19	Work done up to the billed quantity and quality is satisfactory

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23	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. 50MM Dia Item No 13.81.3 PWD SR 2018-19	Work done up to the billed quantity and quality is satisfactory
24	NIPPLE 50 mm nominal bore gun metal P. No.xxXIXiii FITTINGS PWD SR	Work done up to the billed quantity and quality is satisfactory
25	S BEND 50 mm nominal bore gun metal P. No.xxXIXiii FITTINGS PWD SR	Work done up to the billed quantity and quality is satisfactory
26	TEE 50 mm nominal bore gun metal P. No.xxXIXiii FITTINGS PWD SR	Work done up to the billed quantity and quality is satisfactory
27	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset.PRED Bangalore Circle SE Approved Date 30.07.2010 15HP to 30 HP Star Delta Starter	Work done up to the billed quantity and quality is satisfactory
28	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications.(P.No.6, I.No.2.1) (SR of PWD)	Work done up to the billed quantity and quality is satisfactory
29	Providing and installing at site of work pvc pipes including cost of pipes and special and labour including lowering into trenches laying true to line level and prefect linking at joints, leak proof including jointing of approved type with all labour and lift charges handling charges including encasing the pipes all round to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete PVC pipe of 6kg/cm2 75 mm (0.662) (Page no.13, Item No.7.1.5) (kuws and db)	Work done up to the billed quantity and quality is satisfactory

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30	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications Specification No.KBS 2.1 .(Page No.7, Item No. 2.10)	Work done up to the billed quantity and quality is satisfactory
31	Bescom Deposit	Work done up to the billed quantity and quality is satisfactory
32	Gate Value 50mm Nominal bore gun metal P.No xxvi Sl No 661 PWD SR 2018-19	Work done up to the billed quantity and quality is satisfactory
33	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work	Work done up to the billed quantity and quality is satisfactory
34	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded ,granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work	Work done up to the billed quantity and quality is satisfactory
35	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo-Wall and Bottom Thickness 15cm (I No-37.59.1,P No-271)	Work done up to the billed quantity and quality is satisfactory

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36	KSRB - 4.9.2: Providing TMT steel Fe500 reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work	Work done up to the billed quantity and quality is satisfactory
37	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work	Work done up to the billed quantity and quality is satisfactory
38	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWTD SR 2018-19	Work done up to the billed quantity and quality is satisfactory
39	Providing One line dressing to granite stone slab/ granite stone masonry as per speciication (P.No.23, I.No.5.17 of PW,P&IWTD SR 2018-19))	Work done up to the billed quantity and quality is satisfactory
40	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P.No.25, I.No.5.30 of PW,P&IWTD S.R 2016-17)	Work done up to the billed quantity and quality is satisfactory
41	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.179, I.No. 24.1 of PW,P&IWTD SR 2015-16)	Work done up to the billed quantity and quality is satisfactory

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